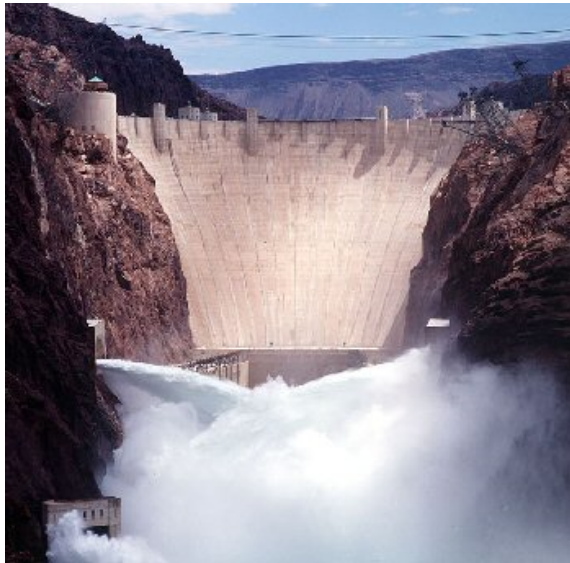


# ***COLORADO RIVER BASIN UPDATE AND STATUS***

**Presented to:  
Drought Interagency Coordinating Group  
June 24, 2020**



# COLORADO RIVER SYSTEM RESERVOIR STATUS

**TOTAL SYSTEM CONTENTS – 51% or 31.46 MAF**

(Total system contents last year 50% or 30.33 MAF)

# June 2020

Updated as of June 19, 2020

**3,657 ft, WY 2020  
Equalization  
Level**

## Lake Powell

**53% 12.805 MAF**

**3,610.74 ft**

## ***Lake Mead***

**41% 10.744 MAF**

**1,088.69 ft**

**1,075 ft, First Tier Shortage**

## UTAH

Salt Lake City

WYOMING

**89% Fontenelle**

**85% Flaming Gorge**

## COLORADO

**73% Blue Mesa**

**Morrow Point**

**81% Navajo**

## NEW MEXICO

## ARIZONA

## LOWER BASIN

## CALIFORNIA

Colorado  
Adeduct

PNIA  CAP  
groundwater

All Agencies

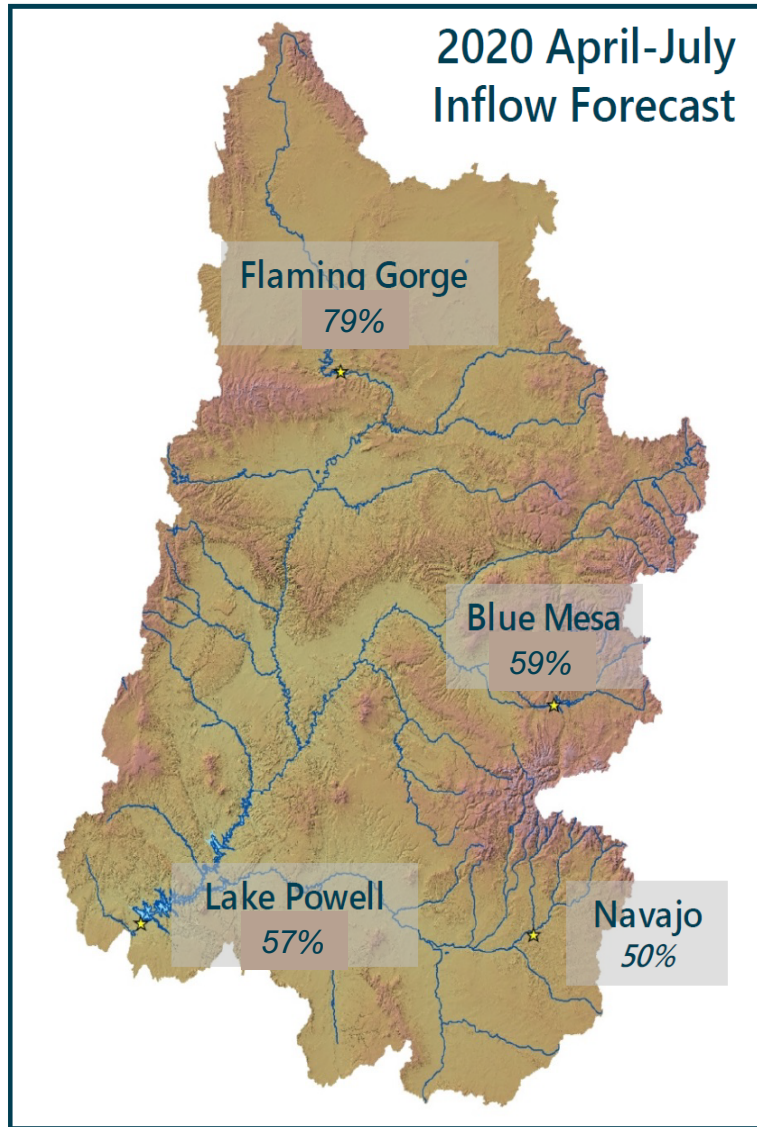
Canal ←

U.S. Govt of  
California



# CBRFC Unregulated Inflow Forecast

## Dated June 16, 2020

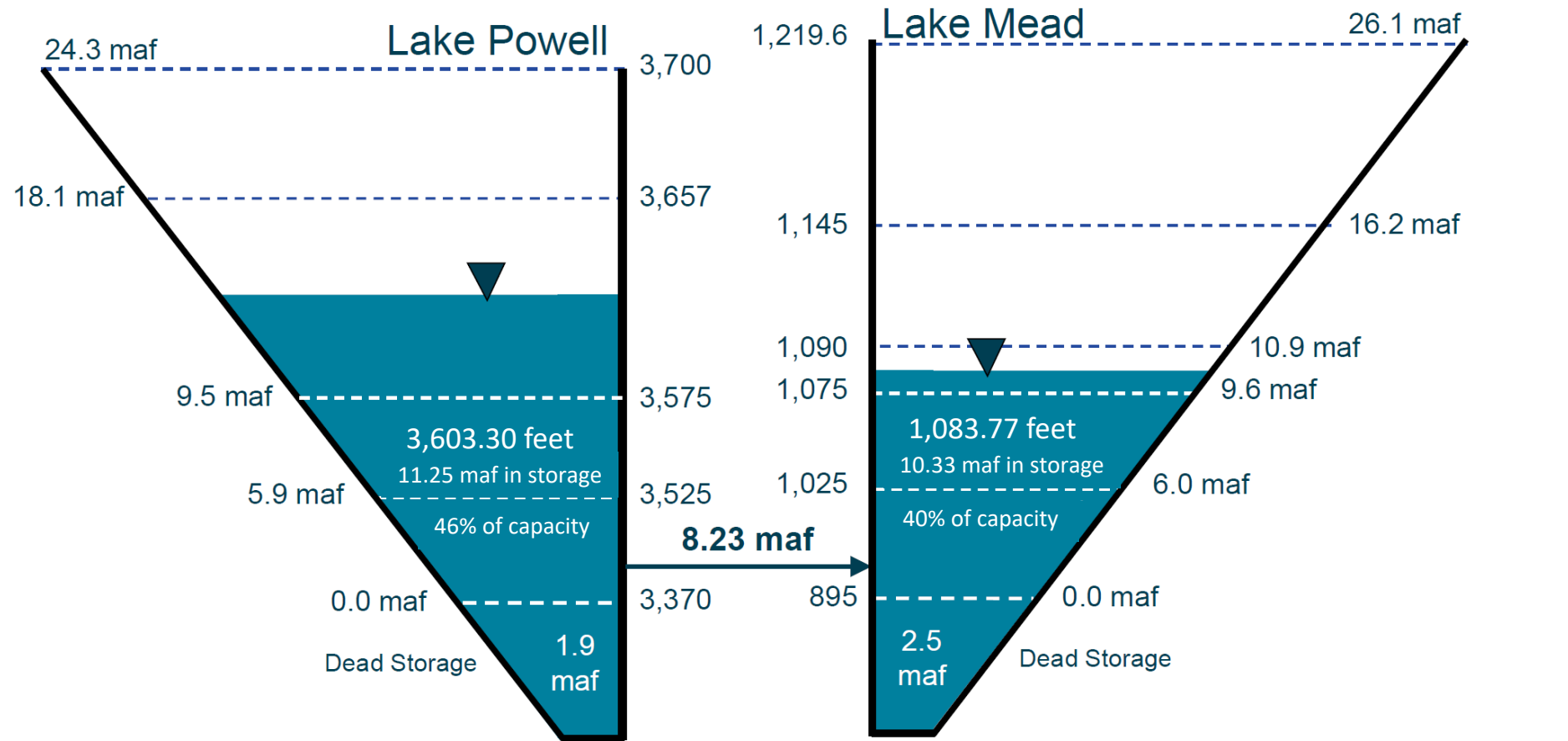


Powell Unregulated Inflow Forecast		
Month/Period	Inflow (kaf)	Percent of Average
Apr 2020 <i>(Observed)</i>	475	45
May 2020 <i>(Observed)</i>	1,541	66
Jun 2020	1,650	62
Jul 2020	434	40
2020 Apr-Jul	4,100	57
WY 2020	6,762	62

# End of Water Year 2020 Projections

June 2020 24-Month Study Most Probable Inflow Scenario<sup>1</sup>

*Projected Lake Powell Unregulated Inflow = 6.762 maf (62% of average)*



Not to Scale

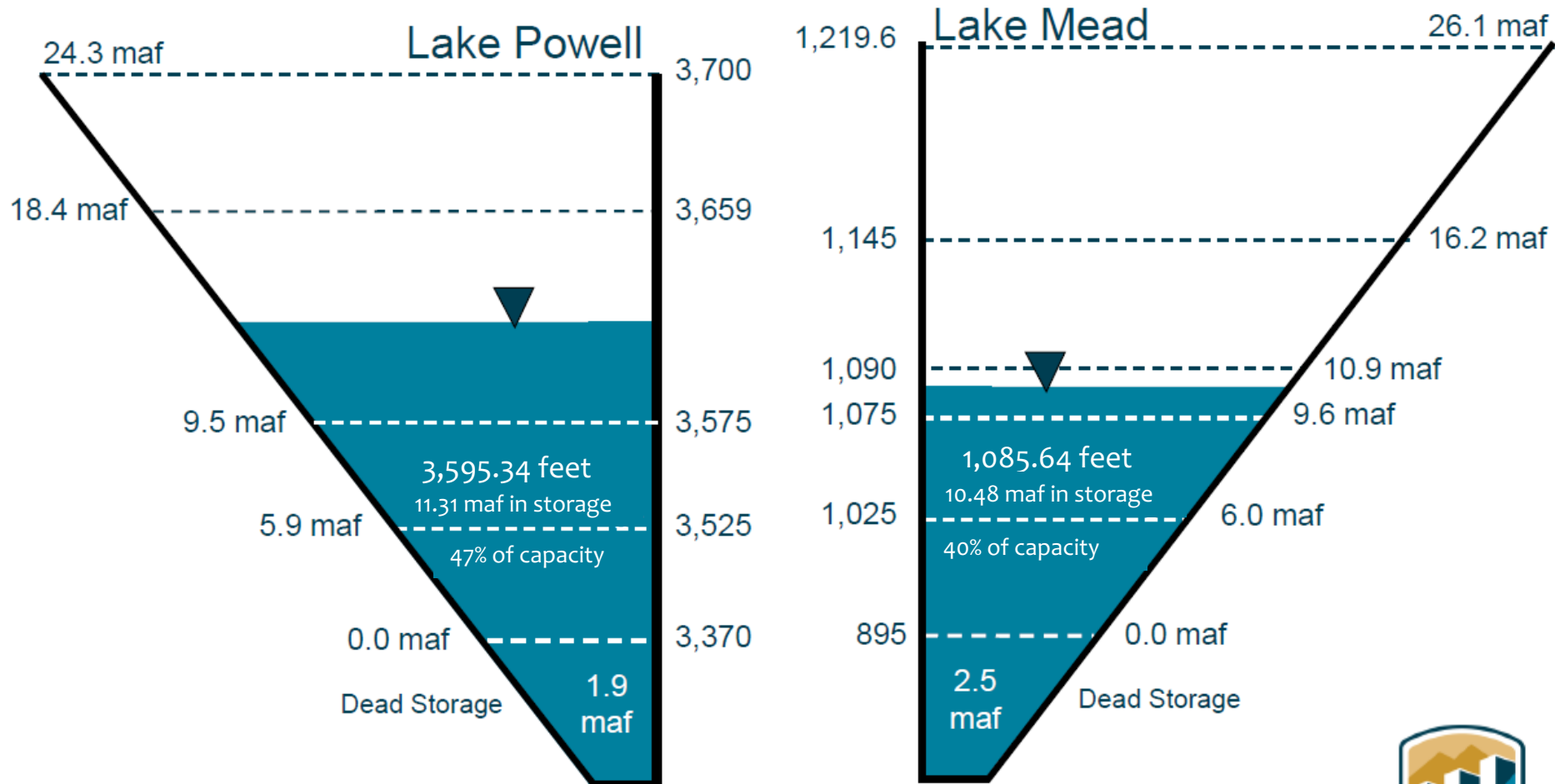
<sup>1</sup>WY 2020 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 6/3/20.



# End of Calendar Year 2020 Projections

June 2020 24-Month Study Most Probable Inflow Scenario<sup>1</sup>

*Based on a Lake Powell release of 8.23 maf in WY 2020 & 9.00 maf in WY 2021*

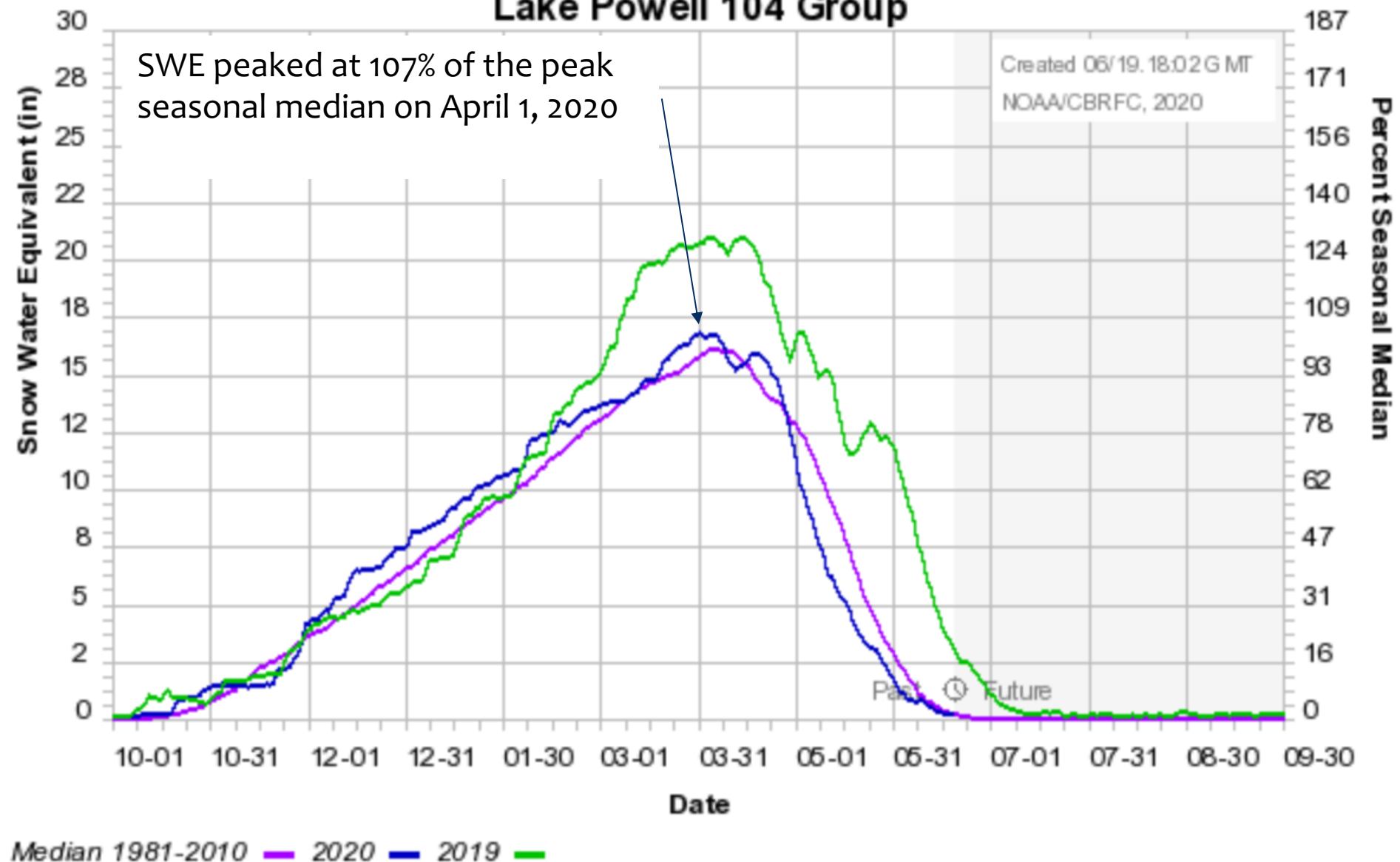


Not to Scale

<sup>1</sup>WY 2020 unregulated inflow into Lake Powell is based on the CBRFC forecast dated 6/3/20.

# Colorado Basin River Forecast Center

## Lake Powell 104 Group



# Lower Basin – Lake Mead

## Percent of Traces with Event or System Condition

### Results from April 2020 MTOM/CRSS using the Full Hydrology and Stress Test Hydrology (values in percent)

Event or System Condition	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
Surplus Condition – any amount (Mead ≥ 1,145 ft)	0	0	<1	6	10	0	0	0	<1	1
Surplus – Flood Control	0	0	0	<1	2	0	0	0	0	0
Normal or ICS Surplus Condition (Mead < 1,145 and > 1,075 ft)	100	100	91	63	53	100	100	88	53	44
Recovery of DCP ICS / Mexico's Water Savings (Mead >/≥ 1,110 ft)	0	0	5	15	21	0	0	1	4	8
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,090 and > 1,075 ft)	100	94	77	44	34	100	94	78	41	32
Shortage Condition – any amount (Mead ≤ 1,075 ft)	0	N	9	31	37	0	N	12	47	55
Shortage / Reduction – 1 <sup>st</sup> level (Mead ≤ 1,075 and ≥ 1,050)	0	0	9	30	28	0	0	12	44	32
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,075 and > 1,050 ft)	0	0	9	30	28	0	0	12	44	32
Shortage / Reduction – 2 <sup>nd</sup> level (Mead < 1,050 and ≥ 1,025)	0	0	0	1	9	0	0	0	3	23
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,050 and > 1,045 ft)	0	0	0	1	3	0	0	0	2	5
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,045 and > 1,040 ft)	0	0	0	<1	2	0	0	0	<1	5
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,040 and > 1,035 ft)	0	0	0	0	2	0	0	0	0	7
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,035 and > 1,030 ft)	0	0	0	0	1	0	0	0	0	4
DCP Contribution / Mexico's Water Savings (Mead ≤ 1,030 and ≥/≥ 1,025 ft)	0	0	0	0	1	0	0	0	0	3
Shortage / Reduction – 3 <sup>rd</sup> level (Mead < 1,025)	0	0	0	0	<1	0	0	0	0	0
DCP Contribution / Mexico's Water Savings (Mead </≤ 1,025 ft)	0	0	0	0	<1	0	0	0	0	0

Notes:

<sup>1</sup> Modeled operations include the 2007 Interim Guidelines, Upper Basin Drought Response Operations, Lower Basin Drought Contingency Plan, and Minute 323, including the Binational Water Scarcity Contingency Plan.

<sup>2</sup> Reservoir initial conditions on December 31, 2020 were simulated using the April 2020 MTOM based on the CRRFC unregulated inflow forecast ensemble dated April 3, 2020.

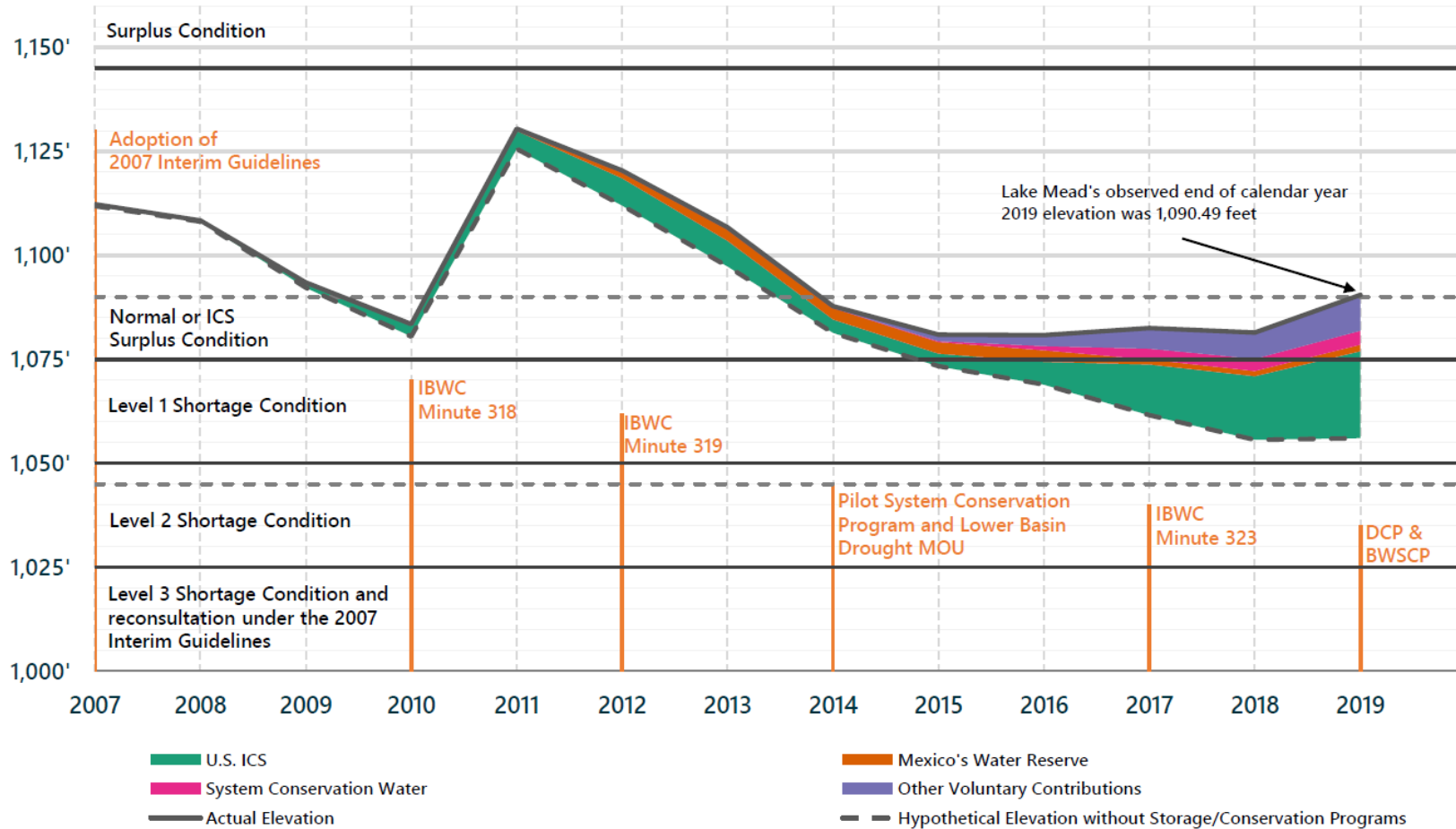
<sup>3</sup> Each of the 35 initial conditions from MTOM were coupled with 113 hydrologic inflow sequences from the Full Hydrology that resamples the observed natural flow record from 1906-2018 for a total of 3955 traces analyzed and with 31 hydrologic inflow sequences from the Stress Test Hydrology that resamples the observed natural flow record from 1988-2018 for a total of 1,085 traces analyzed.

<sup>4</sup> Percentages shown in this table may not be representative of the full range of future possibilities that could occur with different modeling assumptions.

<sup>5</sup> Percentages shown may not sum to 100% due to rounding to the nearest percent.

<sup>6</sup> The chance of a Lower Basin Shortage in 2021 is negligible.

# Lake Mead Storage and Conservation 2007-2019



End of calendar year 2019 balances of U.S. ICS and Mexico's Water Reserve, system conservation water, and other voluntary contributions to Lake Mead are provisional and subject to change.

